

CLAIMS

What is claimed is:

1. A fire resistant fabric material comprising a substrate having an ionic charge coated with a coating having essentially the same ionic charge wherein said coating consists essentially of a filler material comprising clay and a binder material and wherein said binder material bonds the filler material together and to the substrate and wherein said coating does not bleed through said substrate.
2. The fire resistant fabric material according to claim 1 wherein said substrate is fiber-glass, said filler further comprises at least one other filler selected from the group consisting of decabromodiphenyloxide, antimony trioxide, fly ash, charged calcium carbonate, mica, glass microspheres and ceramic microspheres and said binder is acrylic latex.
3. The fire resistant fabric material according to claim 2 wherein said substrate is planar and is coated on one side with said coating.
4. The fire resistant fabric material according to claim 2 wherein said substrate is planar and is coated on both sides with said coating.
5. The fire resistant fabric material according to claims 1, 3 or 4, wherein said material further includes on one or both sides a water repellent material.
6. The fire resistant fabric material according to claims 1, 3 or 4 wherein said material further includes on one or both sides an antifungal material.
7. The fire resistant fabric material according to claims 1, 3 or 4 wherein said material further includes on one or both sides an antibacterial material.

8. A fire resistant fabric material according to claims 1, 3 or 4 wherein said material further includes on one or both sides a surface friction agent.

9. A fire resistant fabric material according to claims 1, 3 or 4 wherein said material further includes on one or both sides a flame retardant material.

10. A fire resistant fabric material according to claims 1, 3 or 4 wherein said material further includes on one or both sides an algaecide.

11. A fire resistant fabric material according to claims 1, 3 or 4 wherein said material is colored with dye.

12. A fire resistant fabric material comprising a substrate coated with a coating consisting essentially of a filler material comprising clay and a binder material wherein

- a) said substrate comprises glass fibers and wherein said material is from 65% to 90% by weight of the glass fibers; and
- b) said coating is from 20% to 80% wet weight of filler and from 80% to 20% wet weight of acrylic latex binder material.

13. The fire resistant fabric material according to claim 12 wherein said filler further comprises at least one filler selected from the group consisting of decabromodiphenyloxide, antimony trioxide, mica, fly ash, charged calcium carbonate, glass microspheres and ceramic microspheres.

14. A fire resistant mattress fabric comprising a decorative fabric and a fire resistant fabric material which comprises a substrate having an ionic charge coated with a coating having essentially the same ionic charge wherein said coating consists essentially of a filler material

comprising clay and a binder material and wherein said binder material bonds the filler material together and to the substrate and wherein said coating does not bleed through said substrate.

15. A fire resistant mattress fabric comprising a decorative fabric and a fire resistant fabric material which comprises a substrate coated with a coating consisting essentially of a filler material comprising clay and a binder material wherein

- a) said substrate comprises glass fibers and wherein said material is from 65% to 90% by weight of the glass fibers; and
- b) said coating is from 20% to 80% wet weight of filler and from 80% to 20% wet weight of acrylic latex binder material.

16. A mattress comprising a fire resistant fabric material which comprises a substrate having an ionic charge coated with a coating having essentially the same ionic charge wherein said coating consists essentially of a filler material comprising clay and a binder material and wherein said binder material bonds the filler material together and to the substrate and wherein said coating does not bleed through said substrate.

17. A mattress comprising a fire resistant fabric material which comprises a substrate coated with a coating consisting essentially of a filler material comprising clay and a binder material wherein

- a) said substrate comprises glass fibers and wherein said material is from 65% to 90% by weight of the glass fibers; and
- b) said coating is from 20% to 80% wet weight of filler and from 80% to 20% wet weight of acrylic latex binder material.

18. A mattress comprising a fire resistant fabric material having a decorative fabric and a fire resistant fabric material which comprises a substrate having an ionic charge coated with a coating having essentially the same ionic charge wherein said coating consists essentially of a filler material comprising clay and a binder material and wherein said binder material bonds the filler material together and to the substrate and wherein said coating does not bleed through said substrate.

19. A mattress comprising a fire resistant fabric material having a decorative fabric and a fire resistant fabric material which comprises a substrate coated with a coating consisting essentially of a filler material comprising clay and a binder material wherein

- a) said substrate comprises glass fibers and wherein said material is from 65% to 90% by weight of the glass fibers; and
- b) said coating is from 20% to 80% wet weight of filler and from 80% to 20% wet weight of acrylic latex binder material.